

**Listing of the Claims:**

The following listing of claims replaces all previous listings or versions of the claims in the application:

1-63. (Cancelled)

64. (Currently Amended) A method of comparing one or more nucleic acid targets within two or more samples, comprising:

- ~~a) preparing a sample mixture by a process comprising obtaining at least a first sample and a second sample, each potentially having at least a first nucleic acid target and mixing the first nucleic acid sample and the second nucleic acid sample to create a sample mixture;~~
- a) preparing a sample mixture by a process comprising:
  - i) obtaining at least a first sample and a second sample, each potentially having at least a first nucleic acid target;
  - ii) hybridizing to the first nucleic acid target in the first sample a first nucleic acid tag having a 5' end comprising an amplification domain, a 3' end that is complementary to the first nucleic acid target, and an intervening sequence comprising a first differentiation domain;
  - iii) extending the hybridized nucleic acid tag using a polymerase to create a first tagged nucleic acid, if the first nucleic acid target is present in the first sample;
  - iv) hybridizing to the first nucleic acid target in the second sample a second nucleic acid tag having a 5' end comprising a first amplification domain, a 3' end that is complementary to the first nucleic acid target, and an intervening sequence comprising a second differentiation domain that is different from the first differentiation domain;

- v) extending the hybridized nucleic acid tag using a polymerase to create a second tagged nucleic acid, if the first nucleic acid target is present in the second sample; and
  - vi) mixing the first sample and the second sample to create a sample mixture;
- b) isolating at least a first target fraction of the sample mixture;
  - c) performing at least a first amplification reaction on the first target fraction, wherein the amplification reaction produces at least a first amplified nucleic acid, if the first nucleic acid target is present in the first sample, and at least a second amplified nucleic acid, if the first nucleic acid target is present in the second sample;
  - d) differentiating the first amplified nucleic acid in the first target fraction, if any, from the second amplified nucleic acid in the first target fraction, if any; and
  - e) comparing abundance of the first nucleic acid target of said first sample to abundance of the first nucleic acid target of said second sample.

65. (Previously presented) The method of claim 64, further defined as comprising performing at least a first amplification reaction on the first target fraction using at least a first target-specific primer, wherein the amplification reaction produces at least a first amplified nucleic acid, if the first nucleic acid target is present in the first sample, and at least a second amplified nucleic acid, if the first nucleic acid target is present in the second sample.

66. (Currently Amended) The method of claim 65, further defined as comprising isolating at least a second target fraction from the sample mixture and performing a second amplification reaction on the ~~the~~ second target fraction using a second target-specific primer that is specific for a second target that may be present in the first sample and/or the second sample.

67-68. (Cancelled)

69. (Currently Amended) The method of claim [[67]]64, wherein said nucleic acid target is one target of a plurality of nucleic acid targets within the samples.

70. (Currently Amended) The method of claim [[67]]64, wherein said first and second samples are two samples of a plurality of samples.

71. (Currently Amended) The method of claim [[70]]64, wherein the first and second tag are two tags of a plurality of tags.

72. (Previously presented) The method of claim 64, wherein the amplification domains of the first and second nucleic acid tags are functionally equivalent.

73. (Previously presented) The method of claim 72, wherein the amplification domains of the first and second nucleic acid tags are identical.

74. (Withdrawn - Currently Amended) The method of claim [[67]]64, wherein the amplification domain of the first nucleic acid tag and the second nucleic acid tag comprises a primer binding domain.

75. (Withdrawn – Currently Amended) The method of claim [[67]]64, wherein the amplification domain of the first nucleic acid tag and the second nucleic acid tag comprises a transcription domain.

76. (Currently Amended) The method of claim [[67]]64, wherein the first differentiation domain of the first nucleic acid tag and the second differentiation domain of the second nucleic acid tag comprise at least a size differentiation domain, an affinity domain, or a unique sequence domain.

77. (Currently Amended) The method of claim [[67]]64, wherein said first target fraction is one of a plurality of target fractions.

78. (Currently Amended) The method of claim [[67]]64, wherein the first target fraction is isolated by binding a ligand to at least a segment of the first nucleic acid target.

79. (Previously presented) The method of claim 78, wherein the ligand is a nucleic acid, protein, or other molecule with an affinity for certain nucleic acids.

80. (Previously presented) The method of claim 79, wherein the ligand is a nucleic acid complementary to at least a segment of the first nucleic acid target.

81. (Previously presented) The method of claim 80, wherein the first complementary nucleic acid is used to separate the first target nucleic acid from at least one other nucleic acid or molecule.

82. (Previously presented) The method of claim 81, wherein the target fraction is subsequently removed from the first complementary nucleic acid.

83. (Previously presented) The method of claim 80, wherein the first complementary nucleic acid is one of a plurality of complementary nucleic acids, and each complementary nucleic acid is complementary to one of a plurality of nucleic acid targets.

84. (Previously presented) The method of claim 80, wherein the first complementary nucleic acid is bound to a solid support.

85. (Currently Amended) The method of claim 84, wherein the first complementary nucleic acid is one of a plurality of complementary nucleic acids bound to an array, and each of the complementary nucleic acids is complementary to one of a plurality of nucleic acid targets.

86. (Previously presented) The method of claim 84, wherein the solid support is one of a plurality of solid supports.

87. (Previously presented) The method of claim 84, wherein the solid support is an array, a microtiter well, a chip, a bead or a combination thereof.

88. (Currently Amended) The method of claim [[67]]64, wherein differentiating comprises binding the first amplified nucleic acid to a ligand specific to at least a segment of the first differentiation domain or binding the second amplified nucleic acid to at least a segment of the second differentiation domain.

89. (Currently Amended) The method of claim [[67]]64, wherein said first differentiation domain of the first nucleic acid tag comprises a first affinity domain and the second differentiation domain of the second nucleic acid tag comprises a second affinity domain that is distinct from the first affinity domain.

90. (Previously presented) The method of claim 89, wherein differentiating comprises binding at least a segment of the first affinity domain to a first affinity domain specific ligand and/or binding at least a segment of the second affinity domain to a second affinity domain specific ligand.

91. (Previously presented) The method of claim 88, wherein the first and second affinity domain specific ligands are two of a plurality of ligands.

92. (Previously presented) The method of claim 90, wherein at least one of the first or the second affinity domain specific ligands is labeled.

93. (Previously presented) The method of claim 90, wherein the binding of the first affinity domain specific ligand to the first affinity domain results in a detectable signal and/or the binding of the second affinity domain specific ligand to the second affinity domain results in a detectable signal.

94. (Previously presented) The method of claim 93, wherein the binding of the first affinity domain specific ligand to the first affinity domain results in a first detectable signal and

the binding of the second affinity domain specific ligand to the second affinity domain results in a second detectable signal.

95. (Previously presented) The method of claim 94, wherein the first detectable signal is distinguishable from the second detectable signal.

96. (Currently Amended) The method of claim [[67]]64, wherein the first differentiation domain of the first nucleic acid tag comprises a first sequence domain and the second differentiation domain of the second nucleic acid tag comprises a second sequence domain that is distinguishable from the first sequence domain.

97. (Currently Amended) The method of claim [[67]]64, wherein differentiating comprises sequencing the first amplified nucleic acid and the second amplified nucleic acid.

98. (Currently Amended) The method of claim [[67]]64, wherein the differentiation domain is a unique size domain.

99. (Currently Amended) The method of claim [[67]]64, wherein the first nucleic acid tag or the second nucleic acid tag further comprises at least one additional domain.

100. (Previously presented) The method of claim 99, wherein said additional domain is a restriction enzyme domain, a secondary amplification domain, a sequencing primer binding site, a labeling domain or a combination thereof.

101. (Previously presented) The method of claim 99, wherein said additional domain comprises one or more restriction enzyme domains.

102. (Withdrawn) The method of claim 99, wherein said additional domain comprises a labeling domain.

103. (Withdrawn) The method of claim 102, wherein the labeling domain is a transcription promoter.

104. (Withdrawn) The method of claim 102, wherein the labeling domain is a primer binding site.

105-106. (Cancelled)